

AMENDMENTS TO THE SPECIFICATION

Please replace the second full paragraph on page 18 with the following amended paragraph:

Fig. 7 illustrates a cross-section of an electrode for electric discharge surface treatment and a concept of a manufacturing method of the electrode according to a second embodiment of the present invention. While a case in which an electrode is formed by compression molding powders with a press has been explained, a method of manufacturing the electrode is not limited to this case. ~~As long as the electrode manufactured is formed powder, the electrode may be manufactured by methods other than compression molding. The other methods to manufacture the electrode include slip casting, Metal Injection Molding (MIM), and spraying or jetting nanopowders. In the slip casting, powders are dispersed in a solvent to make a suspension, and the suspension is poured into a porous cast, such as a plaster cast, to remove the solvent. In the MIM, powders are mixed with a binder and jet into a mold. In spraying, powders are heated and the powders heated are sprayed to make a state in which the powders are partly combined with each other. Even though there are various different methods to manufacture the electrode, a purpose of each of the methods is to form powders. If a desirable combining state of the powders is obtained in the electrode, the electrode may be applied to the present invention.~~ As shown in Fig. 7, a mixture of a Ti (titanium) powder 701 and a Co (cobalt) powder 702 is filled in a space between an upper punch 703 of a mold, a lower punch 704 of the mold, and a die 705 of the mold. A green compact is formed by compression molding the mixture. The green compact thus obtained is used as an electrode for electric discharge in the electric discharge surface machining. The pressure to compression mold the powder was set to about 100 MPa and

the heating temperature was changed in a range of 400°C to 800°C during manufacturing the electrode.

Please replace the full paragraph appearing on page 21 after line 2 with the following amended paragraph:

While a case in which an electrode is formed by compression molding powers with a press has been explained, a method of manufacturing the electrode is not limited to this case. As long as the electrode manufactured is formed powder, the electrode may be manufactured by methods other than compression molding. ~~The other methods to manufacture the electrode include slip-casting, Metal Injection Molding (MIM), and spraying or jetting nanopowders. In the slip-casting, powders are dispersed in a solvent to make a suspension, and the suspension is poured into a porous cast, such as a plaster cast, to remove the solvent. In the MIM, powders are mixed with a binder and jet into a mold. In spraying, powders are heated and the powders heated are sprayed to make a state in which the powders are partly combined with each other. Even though there are various different methods to manufacture the electrode, a purpose of each of the methods is to form powders. If a desirable combining state of the powders is obtained in the electrode, the electrode may be applied to the present invention.~~

Please replace the full paragraph on page 24 before the heading Fourth Embodiment with the following amended paragraph:

While a case in which an electrode is formed by compression molding powers with a press has been explained, a method of manufacturing the electrode is not limited to this case. As

long as the electrode manufactured is formed powder, the electrode may be manufactured by methods other than compression molding. The other methods to manufacture the electrode include slip casting, Metal Injection Molding (MIM), and spraying or jetting nanopowders. In the slip casting, powders are dispersed in a solvent to make a suspension, and the suspension is poured into a porous cast, such as a plaster cast, to remove the solvent. In the MIM, powders are mixed with a binder and jet into a mold. In spraying, powders are heated and the powders heated are sprayed to make a state in which the powders are partly combined with each other. Even though there are various different methods to manufacture the electrode, a purpose of each of the methods is to form powders. If a desirable combining state of the powders is obtained in the electrode, the electrode may be applied to the present invention.

Please replace the second full paragraph on page 27 with the following amended paragraph:

While a case in which an electrode is formed by compression molding powders with a press has been explained, a method of manufacturing the electrode is not limited to this case. As long as the electrode manufactured is formed powder, the electrode may be manufactured by methods other than compression molding. The other methods to manufacture the electrode include slip casting, Metal Injection Molding (MIM), and spraying or jetting nanopowders. In the slip casting, powders are dispersed in a solvent to make a suspension, and the suspension is poured into a porous cast, such as a plaster cast, to remove the solvent. In the MIM, powders are mixed with a binder and jet into a mold. In spraying, powders are heated and the powders heated are sprayed to make a state in which the powders are partly combined with each other. Even

~~though there are various different methods to manufacture the electrode, a purpose of each of the methods is to form powders. If a desirable combining state of the powders is obtained in the electrode, the electrode may be applied to the present invention.~~

Please replace the second full paragraph on page 34 with the following amended paragraph:

While a case in which an electrode is formed by compression molding powers with a press has been explained, a method of manufacturing the electrode is not limited to this case. As long as the electrode manufactured is formed powder, the electrode may be manufactured by methods other than compression molding. ~~The other methods to manufacture the electrode include slip casting, Metal Injection Molding (MIM), and spraying or jetting nanopowders. In the slip casting, powders are dispersed in a solvent to make a suspension, and the suspension is poured into a porous cast, such as a plaster cast, to remove the solvent. In the MIM, powders are mixed with a binder and jet into a mold. In spraying, powders are heated and the powders heated are sprayed to make a state in which the powders are partly combined with each other. Even though there are various different methods to manufacture the electrode, a purpose of each of the methods is to form powders. If a desirable combining state of the powders is obtained in the electrode, the electrode may be applied to the present invention.~~

**Please replace the full paragraph on page 38 before the heading Seventh
Embodiment with the following amended paragraph:**

While a case in which an electrode is formed by compression molding powers with a press has been explained, a method of manufacturing the electrode is not limited to this case. As long as the electrode manufactured is formed powder, the electrode may be manufactured by methods other than compression molding. ~~The other methods to manufacture the electrode include slip-casting, Metal Injection Molding (MIM), and spraying or jetting nanopowders. In the slip-casting, powders are dispersed in a solvent to make a suspension, and the suspension is poured into a porous cast, such as a plaster cast, to remove the solvent. In the MIM, powders are mixed with a binder and jet into a mold. In spraying, powders are heated and the powders heated are sprayed to make a state in which the powders are partly combined with each other. Even though there are various different methods to manufacture the electrode, a purpose of each of the methods is to form powders. If a desirable combining state of the powders is obtained in the electrode, the electrode may be applied to the present invention.~~

**Please replace the full paragraph on page 38 before the heading Industrial
Applicability with the following amended paragraph:**

While a case in which an electrode is formed by compression molding powers with a press has been explained, a method of manufacturing the electrode is not limited to this case. As long as the electrode manufactured is formed powder, the electrode may be manufactured by methods other than compression molding. ~~The other methods to manufacture the electrode include slip-casting, Metal Injection Molding (MIM), and spraying or jetting nanopowders. In~~

~~the slip-casting, powders are dispersed in a solvent to make a suspension, and the suspension is poured into a porous cast, such as a plaster cast, to remove the solvent. In the MIM, powders are mixed with a binder and jet into a mold. In spraying, powders are heated and the powders heated are sprayed to make a state in which the powders are partly combined with each other. Even though there are various different methods to manufacture the electrode, a purpose of each of the methods is to form powders. If a desirable combining state of the powders is obtained in the electrode, the electrode may be applied to the present invention.~~